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(71) Applicant (for all designated States except US): **ARIZONA BOARD OF REGENTS** [US/US]; University, Brickyard Suite 601, Room 691AA, 699 S. Mill Avenue, Tempe, AZ 85281 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PONCE, Fernando, A.** [US/US]; 19 East 13th Street, Tempe, AZ 85281 (US). **GARCIA, Rafael** [MX/US]; 1440 East Broadway, #119A, Tempe, AZ 85282 (US). **THOMAS, Alan, C.** [US/US]; 1328 East Horseshoe Avenue, Gilbert, AZ 85296 (US). **BELL, Abigail** [GB/GB]; 191 St. Peters Avenue, Kettering, Northhamptonshire NN 16 OHE (GB).

(74) Agent: **CATALFIO, Donna, H.**; Gallagher & Camelback Road, Phoenix, AZ 85016-9225 (US).

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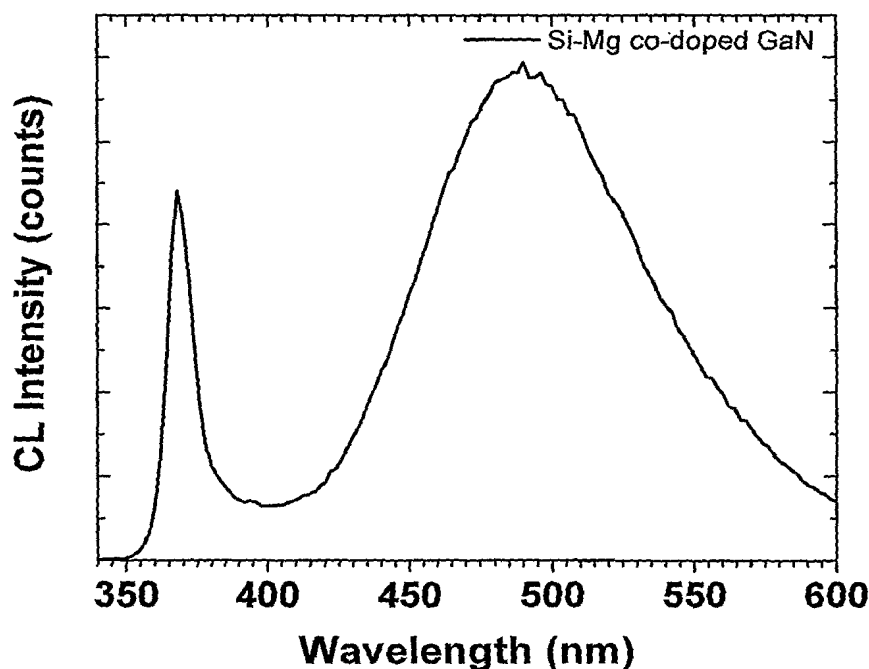
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(54) Title: METHOD TO SYNTHESIZE HIGHLY LUMINESCENT DOPED METAL NITRIDE POWDERS



(57) Abstract: A simple, inexpensive method of producing in bulk a doped metal nitride powder that exhibits a high luminescent efficiency, by first forming a metal-dopant alloy and then reacting the alloy with high purity ammonia under controlled conditions in a reactor. The resulting doped metal nitride powders will exhibit a luminescent efficiency that greatly exceeds that seen in pure undoped GaN powders, doped GaN thin films, and ZnS powders.

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